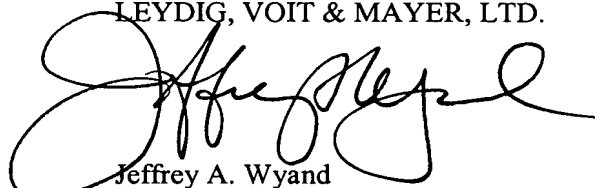


REMARKS

The foregoing Amendment corrects translational errors and conforms the claims to United States practice. No new matter is added.

Respectfully submitted,

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PATENT
Attorney Docket No. 401530/SHINSEI

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KITAMURA et al.

Art Unit: Unassigned

Application No. Unassigned

Examiner: Unassigned

Filed: January 16, 2002

For: EXCITATION CONTROL DEVICE
AND EXCITATION CONTROL
METHOD

**AMENDMENTS TO CLAIMS AND
ABSTRACT MADE VIA PRELIMINARY AMENDMENT**

Amendments to existing claims:

1. (Amended) An excitation control device, comprising:
 - voltage detecting means for detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;
 - reactive current detecting means for detecting a reactive current output from the synchronous machine;
 - voltage setting means for setting a reference voltage of the output terminal of the synchronous machine according to the reactive current detected by the reactive current detecting means, a reference voltage of an output side of the transformer, and a ~~function of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation; and
 - control means for controlling an exciting system of the synchronous machine according to a difference between the reference voltage set by the voltage setting means and the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.
2. (Amended) ~~An~~ The excitation control device according to claim 1, wherein the reference voltage of the output terminal of the synchronous machine is set by the voltage setting means ~~by considering~~ based on the voltage of the output terminal of the synchronous machine detected by the voltage detecting means.

3. (Amended) An excitation control method, comprising ~~the steps of~~:
detecting a voltage of an output terminal of a synchronous machine which is connected to a power transmission system through a transformer;
detecting a reactive current output from the synchronous machine;
setting a reference voltage of the output terminal of the synchronous machine according to the reactive current, a reference voltage of an output side of the transformer, and ~~a function of phase compensation used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation; and
controlling an exciting system of the synchronous machine according to a difference between the reference voltage of the output terminal of the synchronous machine and the voltage of the output terminal of the synchronous machine.

4. (Amended) ~~An~~ The excitation control method according to claim 3, wherein ~~the step of setting the reference voltage of the output terminal of the synchronous machine includes the step of setting the reference voltage of the output terminal of the synchronous machine by considering based on the voltage of the output terminal of the synchronous machine.~~

Amendments to the abstract:

ABSTRACT OF THE DISCLOSURE

A reference voltage V_{Gref} of an output terminal of a synchronous machine ~~21~~ is set according to a reactive current I_Q output from the synchronous machine ~~21~~, a reference voltage V_{Href} of the high voltage side of a transformer ~~22~~, and a ~~transfer function $F_{H(s)}$ of~~ phase compensation ~~used~~ transfer function to quicken ~~the~~ attenuation of an electric power fluctuation.